"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

ROZHDESTVENSKIY, Rostislav L'vovich; POPOVA, N.E., otv.red.; RYAZANTSEVA, M.M., red.; SHEFER, G.I., tekhn.red.

[Apparatus for the transmission of broadcasting programs through duplex channels of high-frequency telephone systems] Apparatura dlia peredachi programm veshchaniia po sdvoennym kanalam sistem vch telefonirovaniia. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960. 38 p. (MIRA 13:5)
(Radiotelephone)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

LYUBSKIY, Gennadiy Severianovich; GORBOVITSKIY, R.M., otv.red.; RYAZANTSEVA, M.M., red.; MARKOCH, K.G., tekhn.red.

[Automatically controlled diesel-powered generator systems] Avtomatizirovannye dizel'-generatornye ustanovki. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1960. 47 p. (MIRA 13:9)

(Electric power plants) (Automatic control)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

SOLOV'YEV, Shaya Grigor'yevich; YARTSEV, G.Ye., otv.red.; RYAZANTSEVA, M.M., red.; MARKOCH, K.G., tekhn.red.

[Apparatus of a trunk intraprovince long-distance semiautomatic telephone system with a one-frequency signal code] Apparatura magistral'noi i vnutrioblastnoi mezhdugorodnoi poluavtomaticheskoi telefonnoi sviazi s odnochastotnym signal'nym kodom. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960. 66 p. (MIRA 13:6)

(Telephone--Equipment and supplies)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

MARKHAY, Ye.V.; ROGINSKIY, V.N.; KHARKEVICH, A.D.. Prinimal uchastiye ZBAR, N.R., inch.. METEL'SKIY, G.B., otv.red.; RYAZANTSEVA, M.M., red.; SHEFER, G.I., tekhn.red.

[Automatic telephony] Avtomaticheskaia telefoniia. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960. 535 p. (MIRA 13:7)

(Telephone, Automatic)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

DANIEL'-BEK, Vladimir Sergeyevich; ROGINSKAYA, Noemi Solomonovna; LYUBSKIY, G.S., otv. red.; RYAZANTSEVA, M.M., red., red.; SLUTSKIN, A.A., tekhn. red.

[Thermoelectric generators] Termoelektrogeneratory. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 51 p. (MIRA 14:11)

(Thermoelectric generators)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, M.M

PHASE I BOOK EXPLOITATION SOV/3800

Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut svyazi

Rukovodstvo po simetrirovaniyu kabeley svyazi (Handbook on Balancing of Communication Cables) Moscow, Svyaz'izdat, 1959. 82 p. 7,600 copies printed.

Additional Sponsoring Agency: USSR. Ministerstvo svyazi. Glavnoye upravleniye mezhdugorodnoy telefonno-telegrafnoy svyazi.

Resp. Eds.: M.A. Klimov, and V.O. Shvartsman; Ed.: M.M. Ryazantseva; Tech. Ed.: S.F. Karabilova.

PURPOSE: This handbook is approved by the Ministry of Communications USSR and is intended for technical personnel working with balanced communication cables.

COVERAGE: The handbook describes methods of balancing cables carrying frequencies up to 252 kc. This makes it possible to multiplex the cables by means of K-24 and K-60 systems. The handbook discusses methods of balancing cable lines containing audio-frequency and shielded circuits, problems of balancing branch lines, cable inserts (into overhead communication lines) related measurements

Card 1/4

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and forms of technical documentation. The handbook was complied by V.S. Shvartsman, senior scientific worker of the cable laboratory of the Central Scientific Research Institute of Communications (Tsentral'nyy Nauchno-Issledovatel'nyy Institut Svyazi) with the assistance of other specialists in this field. Senior Scientific workers V.N. Kuleshov and V.S. Malyshev participated in compiling materials concerning audio-frequency cables. There are no references.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

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AVAILABLE: Library of Congress (TK5481.R79)

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7-19-60

Card 4/4

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

FARAFONOV, Leonid Stepanovich; MATYUSH, B.I., otv.red.; RYAZANTSEVA, M.M., red.; MARKOCH, K.G., tekhn.red.

[Automatic telephone exchanges of district centers (ATS 100/500)] ATS raionnogo tsentra (ATS 100/500). Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1960. 35 p. (MIRA 14:3)

(Telephone, Automatic)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

METEL'SKIY, Georgiy Borisovich. Prinimal uchastiye MAKHOTIN, K.K.; RYAZANTSEVA, M.M., red.; MARKOCH, K.G., tekhn. red.

[Crossbar automatic telephone exchanges] Koordinatnye ATS. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 189 p. (MIRA 14:10)

(Telephone, Automatic)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

2160. RYAZANTSEVA N. E. Inst. of Virol. of the Acad. of Med. Sci. of the USSR., Moscow. * Experimental measles in puppies (Russian text)
Z. MIKROBIOL. 1956, No. 5 (22-29) Illus. 7 Tables 5

Experiments were carried out on 48 puppies aged from 3 weeks to 2 months. Seventeen puppies were infected with blood or washings from the mucous membrane of the pharynx of affected children; 4 puppies with rabbit blood dried at 20° C., the blood having been taken at the height of viraemia from rabbits infected with measles; 3 puppies with blood of monkeys affected with experimental measles. Passage infection from puppy to puppy was also produced by blood taken on the 3rd to 7th day after infection. In all cases the animals were infected by a combined method - subcutaneous injection, inoculation into the nose and on the conjunctiva, and rubbing into jowl and pharynx with a swab. In the infected puppies, as a rule, the infection took a mild form. Some of the animals showed malaise, rise of temperature (50%), morbilliform rash (38%). The presence of the causative agent in the blood was confirmed in all the puppies (during the period 2 to 8 days after infection) and also a rise in antibodies which agglutinated and neutralized measles virus from various sources (from puppies, monkeys and human patients). Chakhava - Moscow

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA MEDICA Sec 5 Vol. 10/10 Microbiology Oct 57

2395. SERGIEV P.G., RYAZANTSEVA N.E. and SMIRNOVA E.V. Inst. of Virol., D.I. Ivanovski Acad. of Med. Sci., USSR, Moscow; Med. and Biol. Station, Sukhumi, USSR. "Trials with measles virus in the monkey, passed through whelp's organism (Russian text) 1956, 11 (88-93) Tables 3

The possibility of infection of whelps with measles was frequently reported. In the experimental animals virusaemia was observed, e.g. in 13 of the whelps the symptoms of measles occurred. After recovery the whelps acquired resistance to infection; specific antibodies were detected in the blood. On the basis of these data the authors applied the measles virus after it had passed through the whelp (virus C) as live vaccine for immunization of monkeys. As a result the monkeys developed mitigated measles. After 30 or 75 days the blood and washings from the mouth of children suffering from measles were injected into the monkeys, however, - unlike the controls, which had not been immunized with virus C - they did not develop measles.

Chakhova - Moscow

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

PETROV, Ye.D., kand.med.nauk; GUZEYEVA, I.S.; RYAZANTSEVA, N.F.; KHOROSHYN, G.M.

Treatment of pneumopleuritis in pulmonary tuberculosis on the Crimean southern shore [with summary in French]. Probl.tub. 37 no.1:84-87 '59. (MIRA 12:2)

1. Iz klimatoterapevticheskoy kliniki (zav. - kand.med.nauk Ye.D. Petrov) Instituta klimatoterapii tuberkuleza imeni I.M. Sechenova (dir. - prof. S.R. Tatevosov).

(TUBERCULOSIS, PULMONARY, compl.
pneumopleurisy, climatother. (Rus))
(CLIMATE,
climatother. of pneumopleurisy in tuberc. (Rus))

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N.M., kand. veter. nauk

Using blood preparations against sterility in cows. Veterinariia 40 no.8:58-59 Ag '63. (MIRA 17:10)

1. Izhevskiy sel'skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

LEBEDEVA, L.N., assistent; ZAGOVORA, A.V., kand.biolog.nauk; RYAZANTSEVA, N.N.; POGOREL'SKIY, L.G.; GOLUBINTSEVA, A.P., kand.sel'skokhoz.nauk (Novosibirsk); GADZHIYEV, G.E.

Brief reports. Zashch. rast. ot vred. i bol. 6 no.7:56-57 Jl '61. (MIRA 16:5)

1. Kafedra plodovodstva i zashchity rasteniy Novosibirskogo sel'skokhozyaystvennogo instituta (for Lebedeva). 2. Ukrainskiy institut rasteniyevodstva, selektsii i genetiki, Khar'kov (for Zagovora, Ryazantseva). 3. Nachal'nik karantinnoy inspektsii Dagestanskoy ASSR (for Pogorel'skiy). 4. Zaveduyushchiy mezhrayonnoy biolaboratoriyey, Kubinskiy rayon (for Gadzhiyev).

(Plants, Protection of)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

SERGIYEV, P.G., prof.; RYAZANTSEVA, N.Ye.; SHIRNOVA, Ye.V.; CHELYSHEVA, K.M.; REVENOK, N.D.; KOZLOVSKAYA, L.A.; KOTSOFANE, V.A.; BORISOVA, L.S.; GEKHTMAN, M.Ya.; SHROYT, I.G.; LAPTEVA, V.N.

Active immunization of children against measles with vaccine "C" in an extensive epidemiological experiment. Zdravookhranenie 2 no.1: 17-20 Ja-F '59. (MIRA 12:7)

1. Iz instituta virusologii im. D.I. Ivanovskogo AMN SSSR (direktor - P.N. Kosyakov), Moldavskogo instituta epidemiologii, mikrobiologii i gigiyeny (direktor - N.N. Yezhov) i Respublikanskoy sanitarno epidemiologicheskoy stantsii Moldavskoy SSR (glavnyy vrach - A.A. Kovalev)
2. Deystvitel'nyy chlen AMN SSSR (for Sergiyev).

(MEASLES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

[illegible], M. Ya., I. [illegible]. SERIYEV, And V. A. SMIRNA

"The Agglutination Reaction by the Bacteria-Loaded Virus as a Method of Detecting Viruses and Antibodies in Vitro," ZhMEI, 3, 14-17, 1945

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N.Ye.; SMIRNOVA, Ye. V.

Experimental studies on measles in monkeys. Zhur. mikrobiol. epid. i immun. no.11:11-15 N '54. (MLRA 8:1)

1. Iz laboratorii kori (zav. prof. P.G.Sergeyev) Instituta virusologii AMN SSSR (dir. prof. P.N.Kosyakov) i Mediko-biologicheskoy stantsii AMN SSSR (dir. kandidat biologicheskikh nauk I.A.Utkin)

(MEASLES, experimental, in monkeys)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N.Ye.; STASILEVICH, Z.K.

Experimental measles in kittens. Vop.virus. 1 no.1:26-30 Ja-F '56.
(MLRA 10:1)

1. Laboratoriya kori Instituta virusologii imeni D.I.Ivanovskogo AMN SSSR i Mediko-biologicheskoy stantsii AMN SSSR.
(MEASLES, experimental,
in cats (Rus))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N.Ye.

Outbreak of measles among monkeys. Zhur.mikrobiol.epid. i immun. 27 no.4:88 Ap '56. (MLRA 9:7)

1. Iz Instituta virusologii imeni D.I.Ivanovskogo AMN SSSR i Mediko-biologicheskoy stantsii AMN SSSR.
(MEASLES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N.Ye.

Experimental measles in puppies. Zhur.mikrobiol.epid. i immun. 27 no.5:22-29 My '56. (MLRA 9:8)

1. Iz Instituta virusologii AMN SSSR
(MEASLES, exper.
in puppies)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

SERGIYEV, P.G.; RYAZANTSEVA, N.Ye.; SMIRNOVA, Ye.V.

Testing on monkeys a measles virus passed through the organism of a puppy. Zhur.mikrobiol.epid. i immun. 27 no.11:88-93 N '56. (MLRA 10:1)

1. Iz Instituta virusologii imeni Ivanovskogo AMN SSSR i Mediko-biologicheskoy stantsii AMN SSSR v Sukhumi.

(MEASLES, experimental,
infect. of monkeys with viruses passed through dogs (Rus))

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

ACC NR: AP6021587 (N) SOURCE CODE: UR/0402/66/000/003/0372/0373

AUTHOR: Sergiyev, P. G.; Shampraye-va, S. A.; Ryazantseva, N. Ye.; Chelysheva, G. N.; Goryacheva, B. A.; Stromova, G. N.

ORG: Cortex Study Group, Moscow [Director—Active Member, Academy of Medical Sciences SSSR, Prof. P. G. Sergiyev] (Gruppa po izucheniyu kori)

TITLE: Culturing viruses in primate tissue

SOURCE: Voprosy virusologii, no. 3, 1966, 372-373

TOPIC TAGS: virology, pathogen, virus, tissue culture, primate, HISTOLOGY, VIRUS, CYTOLOGY

ABSTRACT:
Viruses isolated from the blood of infected monkeys were grown in primate spleen and kidney tissue for 10—12 passages. Typical cytopathic changes were observed as well as changes in properties of the viruses themselves. When cultured in spleen cells, the virus lost less of its virulence than when cultured in kidney cells. Vaccines made from these preparations had some protective effect which vanished within a year. [W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: none/

Card 1/1

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N.Ye.; REVENOK, N.D.; SHROYT, I.G.; SHLYAKHOV, E.N.

A study of the immunological relation between measles and canine distemper viruses. Report No.1: Infection of puppies with canine distemper virus following experimental measles. Vop.virus. 6 no.5:577-582 S-O '60. (MIRA 14:7)

1. Laboratoriya kori Instituta virusologii AMN SSSR, Moskva, i Moldavskiy institut epidemiologii, mikrobiologii i gigiyeny.
(MEASLES) (DISTEMPER)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

LIVANOVA, L.V.; RYAZANTSEVA, N.Ye.

Clinical and virological parallels in measles. Vop. virus. 5 no.4: 457-462 Je-Ag '60. (MIRA 14:1)

1. Otdel ostrykh detskikh infektsiy Instituta pediatrii AMN SSSR i Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
(MEASLES)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N. YE.; SMIRNOVA, YE. V.; KOZLOVSKAYA, L. A.

"Effect of the state of maternal immunity to measles on the intensity of immunity in progeny (experiments on monkeys.)

Report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists. 1959

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

SERGIYEV, P.G.; RYAZANTSEVA, N.Ye.; SMIRNOVA, Ye.V.

Development of active immunication against measles in monkeys. Vop. virus. 4 no.5:558-562 S-O '59. (MIRA 13:2)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR.
(MEASLES, immunol.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, N.Ye.; SMIRNOVA, Ye.V.; KOZLOVSKAYA, L.A.

Effect of maternal immunity to measles on the immunological level in the spring; experiments on monkeys and on small laboratory animals. Vop. virus. 4 no.1:59-63 Ja-F '59. (MIRA 12:4)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.
(MEASLES, exper.
mother-offspring immunol. relationship after immunization in pregn. (Rus))

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

USSR/Virology. Viruses of Man and Animal E

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57411

Author : Sergiyev P. G., Ryazantseva N. Ye., Smirnova Ye. V
Inst : Not given
Title : Tests of the Measle Virus passed through the Organism of a Puppy on Monkeys.

Orig Pub : Zh. mikrobiol., epidemiol. i immunobiologii, 1956, No 11, 88-93

Abstract : The measles virus and its antibodies were discovered with the help of the AVB reaction /agglutinations by the virus of supercharged bacteria/. The pathogenicity and immunogenesis of the blood of puppies infected with the blood of nasopharyngeal washings of humans ill with measles to monkeys were studied. Three monkeys were infected with the native blood of infected

Card 1/2

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KOPEYKOVSKIY, V.M., kand.tekhn.nauk; RYAZANTSEVA, M.I., inzh.; GARBUZOVA, G.I., inzh.

Use of corn dryers for drying sunflower. Masl.-zhir.prom. 26 no.8:25-26 Ag '60. (MIRA 13:8)

1. Krasnodarskiy institut pishchevoy promyshlennosti.
(Timashevskaya (Krasnodar Territory)--Sunflower seed--Drying)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, O.F.

AID P - 2288

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 14/21

Authors : Vol'f, F. F, O. F. Ryazantseva and S. I. Kuznetsov

Title : Effect of sodium sulfide on the decomposition of aluminate solutions

Periodical: Zhur. prikl. khim., 28, no.3, 319-322, 1955

Abstract : Sodium sulfide contained in aluminate solutions decreases their rate of decomposition. Two tables, no references.

Institution: Ural Polytechnic Institute (im. Kirov)

Submitted : D 9, 1953

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

ACC NR: AP6025609

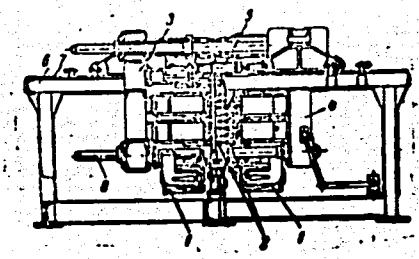

Fig. 1. 1 - welding transformers; 2 - welding guns; 3 and 4 - vertical plates; 5 - driving mechanism for plates; 6 - frame; 7 - guides; 8 - rods

in their original position prior to welding. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 16Jun65

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

FOMICHYKH, I.P.; VOLODIN, I.P.; MERKULOV, F.N.; RYAZANTSEVA, V.N.

Accelerating the annealing of malleable cast iron modified by boron and bismuth. Izv. vys. ucheb. zav.; chern. met. no.8:153-159 '60. (MIRA 13:9).

1. Tul'skiy mekhanicheskiy institut i Tul'skiy kombaynovyy zavod.
(Annealing of metals) (Cast iron--Heat treatment)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

S/148/60/000/008/011/018
A161/A029

AUTHORS: Fominykh, I.P.; Volodin, I.P.; Merkulov, F.N.; Ryazantseva, V.N.

TITLE: Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. - Chernaya metallurgiya, 1960, No. 8, pp. 153 - 159

TEXT: At the Gor'kovskiy avtozavod (Gor'kiy Automobile Works), where malleable cast iron had been modified by boron and bismuth (Ref. 7), the annealing time had been cut from 60 to 35 - 36 hours (annealing in electric 25-t chamber furnace). The Tul'skiy kombaynovyy zavod (Tula Harvesting Combine Works), aided by Tul'skiy mekhanicheskiy institut (Tula Institute of Mechanics), utilized the Gor'kiy works experience and attempted to obtain malleable cast iron with raised strength on account of the predominating perlitic component. Cast iron KCh-45-5 (Kch-45-5) used for the experiments had the following composition: (in %): 2.45--2.8 C; 0.9-1.3 Si; 0.45-0.65 Mn; not above 0.12 S; 0.15 P, and 0.07 Cr. It was smelted in a cupola furnace and superheated in an acid electric furnace. The powdered modifier consisted of ferro-silico-boral (an alloy of iron-silicon-boron-

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Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

-aluminum, with 5-15% B; and metallic bismuth, and was placed in a paper bag and held into the metal jet during pouring into the ladle; 0.003-0.004% B and 0.002--0.003% Bi was used (of the metal weight). Parts for a new machine were cast from modified cast iron. The parts and specimens were annealed in laboratory ПН-11 (PN-11) chamber furnaces. Three microphotograph sets show the structure of the initial and of the modified cast iron (a and b, Figs. 1,3,4). It was stated that boron and bismuth refined dendrites; the modified iron contained a considerably higher quantity of carbides; it was assumed that cementite of modified iron contained less carbon and hence had other properties than usual, viz. lower stability, which had been proven by I.F. Kurtov et al. (Ref. 7); graphite grains were refined. Five different annealing process versions were tried to study the decomposition rate of primary cementite in the first stage of graphitization. It was considerably more intense in modified cast iron than in the initial cast iron. Cementite of modified cast iron was less stable at all temperatures between 850 and 1,050°C, and the metal had a high tendency to chilling at usual and higher Si content. The finally chosen annealing schedule is shown in Figure 6, with a total time of only 8 hours. It produced malleable cast iron with a tension strength not below 45 kg/mm^2 and an elongation of 5% and more only when the boron-

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S/148/60/000/008/011/018
A161/A029

Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

-bismuth modifier was used. The experimental results fully confirmed the data obtained by I.F. Kurtov (Ref. 7) and N.G. Girshovich (Refs. 2,8) and proved that addition of boron and bismuth greatly speeds up the annealing of malleable cast iron and improves graphitization but has no marked effect on strength. The author points out that in American practice high-strength cast iron with lowered plasticity is used very extensively, and suggests the application of such cast iron with an ultimate strength which is higher by a factor of 1.5. There are 6 figures and 8 Soviet references.

ASSOCIATION: Tul'skiy mekhanicheskiy institut (Tula Institute of Mechanics) and Tul'skiy kombaynovyy zavod (Tula Harvesting Combine Works)

SUBMITTED: April 6, 1960

Card 3/5

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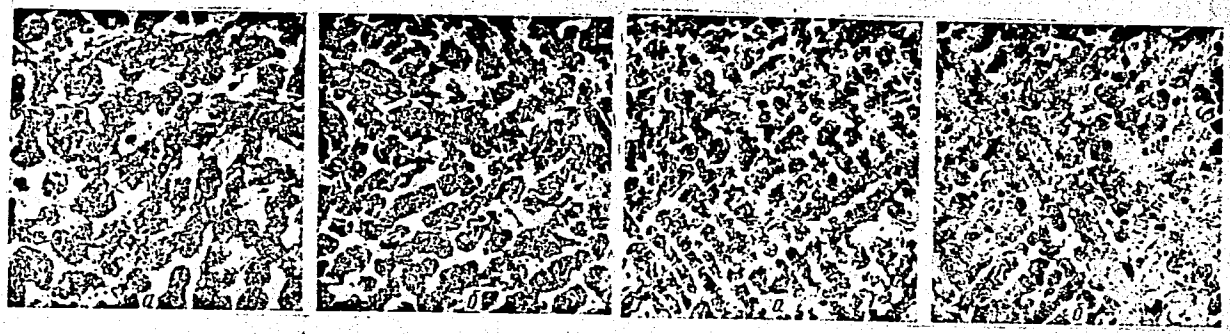
S/148/60/000/008/011/018
A161/A029

Speeding up the Annealing of Malleable Cast Iron Modified by Boron and Bismuth

Figure 1: Structure of Initial and Modified Cast Iron Prior to Annealing. ×100

Figure 3: Structure of Initial and Modified Cast Iron After Holding for 10 min at 900°C. ×100



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S/148/60/000/008/011/018
A161/A029

Speeding up the Annealing of Maaeable Cast Iron Modified by Boron and Bismuth

Figure 4:

Structure of Initial and Modified Cast Iron After Holding for 10 hours at 950°C. × 100

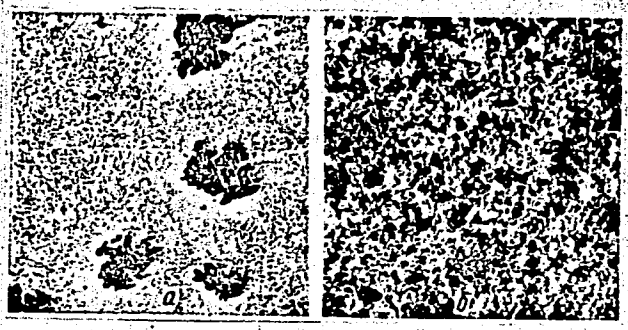
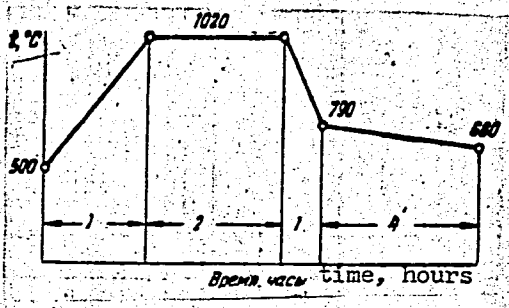


Figure 6:

Graph of Accelerated Annealing of Modified Malleable Cast Iron.



Card 5/5

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

KADYROV, F.A. (Lipetsk (oblastnoy), ul. Y.Gagarina, d.81, kv.17);
RYAZANTSEVA, V.V.

Cancer of the cervix uteri in its total prolapse; a case report.
Vop. onk. 10 no.9:109-110 '64. (MIRA 18:4)

1. Iz Lipetskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach - F.A.Kadyrov).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

ZUBKOV, Ivan Ivanovich, kand. tekhn. nauk; UGRYUMOV, Arkadiy Konstantinovich, kand. tekhn. nauk; BERNGARD, K.A., doktor tekhn. nauk, retsenzent; BOGDANOV, I.A., inzh., retsenzent; ZHURAVLEV, M.M., inzh., retsenzent; KOZAK, V.A., inzh., retsenzent; ROZENBERG, A.D., inzh., retsenzent; RYAZANTSEVA, Yu.A., inzh., retsenzent; SKALOV, K.Yu., kand. tekhn.nauk, retsenzent; PREDE, V.Yu., inzh., red.; KHITROVA, N.A., tekhn. red.

[Traffic organization in railroad transplrtation]Organizatsiia dvizheniia na zheleznodorozhnom transporte. Izd.2., perer. i dop. Moskva, Transzheldorizdat, 1962. 399 p. (MIRA 16:1)
(Railroads--Traffic)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

PROKHOROV, Fedor Nikitovich; BELOKRYLIN, Yu.F., inzh., retsenzent; LEVIN, B.M., inzh., retsenzent; RYAZANTSEVA, Yu.A., retsenzent; KALININ, V.K., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Electric traction departments and electric power supply of electric railroads]Elektrotiagovoe khoziaistvo i energosnabzhenie elektricheskikh zheleznykh dorog. 2., perer. i dop. izd. Moskva, Transzheldorizdat, 1962. 134 p. (MIRA 16:1)

(Electric railroads--Current supply)
(Electric locomotives)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, Yu.A., inzh.

Substantial reserve for further improvement in the utilization of locomotives. Elek. i tepl. tiaga 4 no. 9:1-5 S '60. (MIRA 13:12)

(Locomatives)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

KOGOSOV, B.Ye., inzhener; RYAZANTSEVA, Yu.A., inzhener.

Realizing the designed speeds of locomotives. Zhel.dor.transp. 37 no.1;25-29 Ja '56. (MLRA 9:3)
(Barabinsk--Locomotives)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

BOL'SHAKOV, M.N.; VYKHODTSEV, I.V., doktor biol. nauk; NIKITINA, Ye.V., kand. biol. nauk; ZABIROV, R.D., kand. geogr. nauk; ISAYEV, D.I., kand. geogr. nauk; KASHIRIN, F.T.; KOROLEV, V.G., kand. geol.-miner. nauk; LUNIN, B.A., kand. geogr. nauk; MAMYTOV, A.M., akademik; OTORBAYEV, K.O., kand. geogr. nauk; RYAZANTSEVA, Z.A., kand. geogr. nauk, st. nauchn. sotr.; UMURZAKOV, S.U.; YANUSHEVICH, A.I.; BLAGOOBRAZOV, V.A., red.; BEYSHENOV, A., tekhn. red.

[The nature of Kirghizistan; brief characteristic of its physical geography] Priroda Kirgizii; kratkaia fiziko-geograficheskaia kharakteristika. Frunze, Kirgizskoe gos. izd-vo, 1962. 296 p. (MIRA 16:7)

1. Geograficheskoye obshchestvo SSSR. Kirgizskiy filial. 2. Zaveduyushchiy Otdelom geografii AN Kirgizskoy SSR, predsedatel' Kirgizskogo filiala Geograficheskogo obshchestva SSSR (for Otorbayev). 3. Dekan geograficheskogo fakul'teta Kirgizskogo gosudarstvennogo universiteta (for Umurzakov). 4. Zamestitel' direktora instituta geologii AN Kirgizskoy SSR (for Korolev). 5. Rukovoditel' sektora geomorfologii Otdela geografii AN Kirgizskoy SSR (for Isayev). 6. Chlen-korrespondent, zaveduyushchiy sektorom Instituta geologii AN Kirgizskoy SSR (for Kashirin).

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

BOL'SHAKOV, M.N.---(continued). Card 2.

7. Direktor Tyan-Shan'skoy vysokogornoy fiziko-geograficheskoy stantsii Otdela geografii AN Kirgizskoy SSR (for Zabirov). 8. Otdel geografii AN Kirgizskoy SSR (for Ryazantseva). 9. Chlen-korrespondent, direktor Instituta energetiki i vodnogo khozyaystva AN KirgizskoySSR (for Bol'shakov). 10. Zavedyushchiy Otdelom pochvovedeniya AN Kirgizskoy SSR (for Mamytov). 11. Chlen-korrespondent, vitseprezident AN Kirgizskoy SSR (for Yanushevich). 12. Zaveduyushchiy kafedroy fizicheskoy geografii Kirgizskogo gosudarstvennogo universiteta (for Lunin).
(Kirghizistan--Physical geography)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, Z.A.

Climate of the northern slope of the Kirghiz Range; based on the Issyk-Ata Valley. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 3 no.5:80-98 '61. (MIRA 15:9)
(Issyk-Ata Valley—Climate)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, Z.A.; KHANADEYEV, A.Ye.

Temperature regime of the eastern part of the central Tien Shan. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 2 no.10:61-71 '60. (MIRA 17:3)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, Z. A.

Climatic regionalization of the Kirghiz S.S.R. Izv. Kir. fil. Geog. ob-va SSSR no.3:119-128 '62. (MIRA 15:10)

(Kirghizistan—Climate)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, Z.A.

Evaporation on uplands of Issyk-Kul' Province. Trudy Inst.vod. khoz.i energ.AN Kir.SSSR no.3:61-67 '56. (MLRA 9:11)
(Issyk-Kul' Province--Soil moisture) (Evaporation)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

S/169/62/000/012/067/095
D228/D307

AUTHOR: Ryazantseva, Z.A.

TITLE: Climate of Dzhalal-Abad Spa

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 66, abstract 12B421 (Tr. 2-y Nauchno-prakt. konferentsii Kirg. n.-i. in-ta kurortol. i fizioterapii, 1960, Frunze, 1961, 54-67)

TEXT: Dzhalal-Abad Spa is situated in the east part of the Fergan'skaya Valley (Kirkiziya) and is regarded as one of the low-mountain spas of the southern desert zone (according to the classification of A.A. Chubukov and Ye.M. Il'icheva) with a semidesert climate. The meteorological conditions according to observations in 1925-1941 and 1948-1949 are analyzed.
[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEVA, Z.A.

Meteorological observations in the Chon-Kyzyl-Su River basin in different phytohabitats. Trudy Inst.geog. no.60:123-138 '54. (MLRA 8:5)

(Chon-Kyzyl-Su Valley--Meteorology--Observations)
(Meteorology--Observations--Chon-Kyzyl-Su Valley)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEV, Yu. S. (Moskva)

Reflection of a shock wave from a burning surface. PMTF no.2: 122-123 Mr-Ap '62. (MIRA 16:1)

(Shock waves) (Flame)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

L 18033-63 EWP(r)/EWT(1)/EPF(n)-2/BDS AFFTC/ASD/IJP(C)/SSD Pu-4

S/0258/63/003/002/0366/0367

ACCESSION NR: AP3000722

61
60

AUTHOR: Ryazantsev, Yu. S. (Moscow)

TITLE: Temperature field induced by tangential discontinuity

SOURCE: Inzhenernyy zhurnal, v. 3, no. 2, 1963, 366-367

TOPIC TAGS: magnetohydrodynamics, discontinuity, magnetic field, diffusivity

ABSTRACT: The effect of increasing tangential discontinuity in magnetohydrodynamics has been analyzed with particular emphasis on the resulting induced thermal energy. Fluid properties on both sides of the discontinuity are considered identical. The time dependent equation for incompressible fluid flow, magnetic field (no electric field is assumed), and energy equations are integrated under the initial and boundary conditions of uniform magnetic strength and fluid velocity. The resulting expression is shown to contain two dissipation terms: one as a result of viscous effects, the other due to the presence of finite electrical resistivity. Orig. art. has: 15 equations.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

L 18033-63

ACCESSION NR: AP3000722

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics, Academy of Sciences, USSR)

SUBMITTED: 09Jul62 DATE ACQ: 21Jun63 ENCL: 00

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Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEV, YU. S.

Dissertation defended at the Institute of Mechanics for the academic degree of Candidate of Physicomathematical Sciences:

"Several Problems of the Theory of Vibrational Combustion."

Vestnik Akad Nauk, No. 4, 1963, pp. 119-145

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEV, Yu.S. (Moskva)

Temperature field induced by thermal energy released at tangential discontinuity dissipation. Inzh. zhur. 3 no.2: 366-367 '63. (MIRA 16:6)

1. Institut mekhaniki AN SSSR.
(Magnetohydrodynamics)
(Thermal diffusivity)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSEV, Yu. S.

"A solution of the heat-conduction equation with convection."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Mechanics Inst, AS USSR.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

37

VOLODINA, L. A.; RYAZANTSEV, Yu. S.; YAVORSKIY, B. M.

"The diffusion of straight dyes into fiber."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Moscow Textile Inst.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

L 43719-65 EWT(l)/EPF(n)-2/EED(b)-3 Pu-4 IJP(c) WW
S/0207/64/000/006/0077/0080

ACCESSION NR: AP5008501

21
B

AUTHOR: Novikov, S.S. (Moscow); Ryazantsev, Yu.S. (Moscow)

TITLE: Acoustic admittance of the hot surface of condensed systems

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1964, 77-80

TOPIC TAGS: acoustic wave, condensed system, hot surface, wave front, acoustic admittance, sound field

ABSTRACT: On the basic of the theory of Ya.B. Zel'dovich, an expression is derived for the acoustic admittance of the hot surface of a condensed system which is dependent on three parameters, and it is shown that, depending on these parameters, acoustic waves reflected from the hot surface may be intensified or attenuated. Acoustic waves having a wavelength considerably greater than the width of the burning zone in the gas are considered, so that in the given case the front of the chemical reaction in the gas coincides with the surface of the condensed phase, and to determine the acoustic admittance of the hot surface it is necessary to determine the ratio of the magnitudes δu and δp (the velocity and pressure, respectively, of the sound field on this surface). Orig. art. has: 13 formulas and 1 figure.

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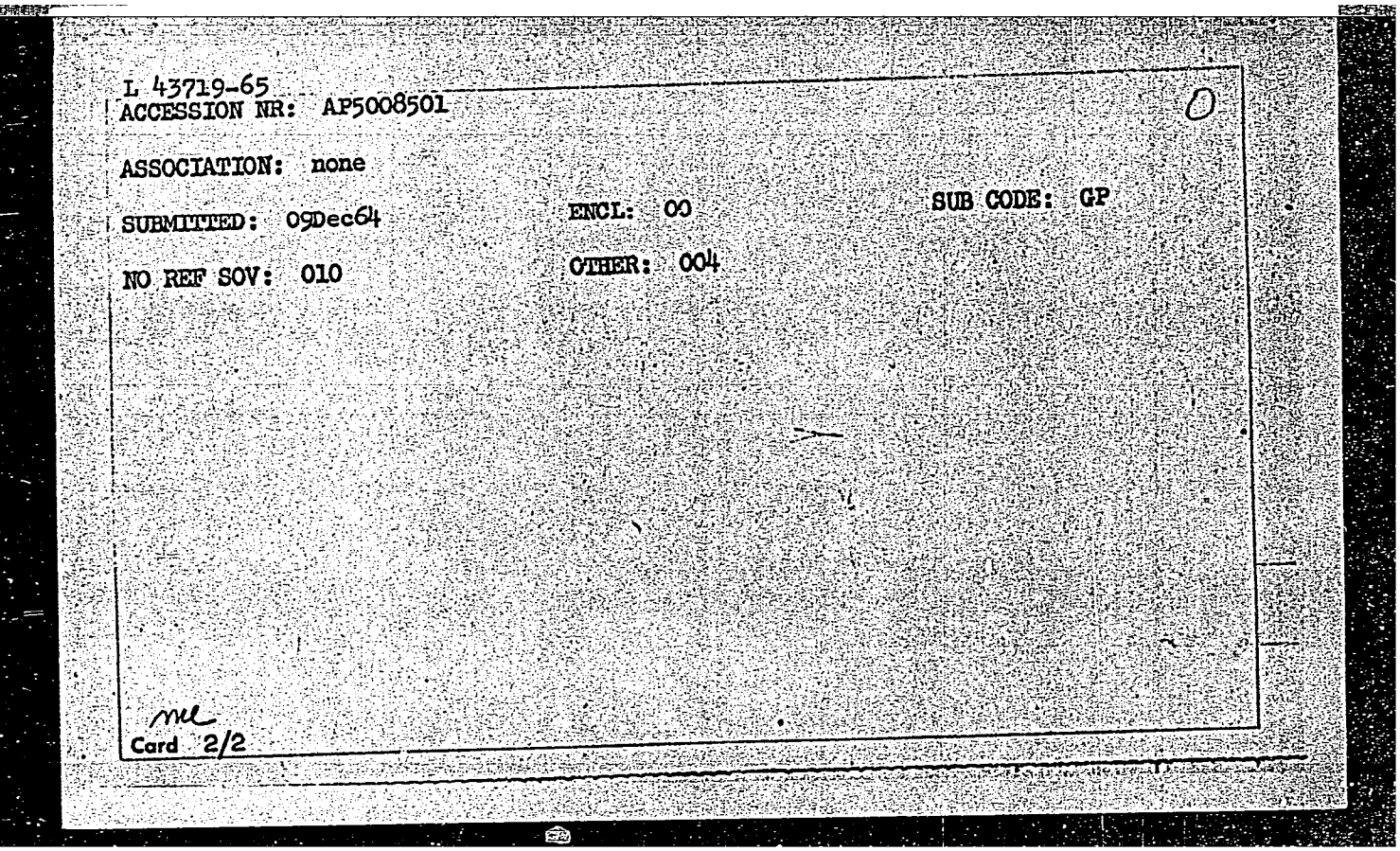

L 43719-65
ACCESSION NR: AP5008501 0

ASSOCIATION: none

SUBMITTED: 09Dec64 ENCL: 00 SUB CODE: GP

NO REF SOV: 010 OTHER: 004

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Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

NOVIKOV, S.S.; RYAZANTSEV, Yu.S.

Analysis of mathematical models of condensed phase burning.
Dokl. AN SSSR 157 no.5:1188-1191 Ag '64. (MIRA 17:9)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.N. Kondrat'yevym.

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L 14378-65 EPA/EPA(s)-2/EWT(m)/EPF(c)/EPR/EWP(j) Pc-4/Paa-4/Pr-4/Ps-4/
Pt-10/Pi-4 RPL/AFWL/AEDC(b)/AEDC(a)/SSD(a)/SSD/BSD/AFETR/AFTC(p)/RAEM(i)
ACCESSION NR: AP4044889 WW/JW/JWD/RM S/0020/64/157/006/1448/1450

AUTHOR: Novikov, S. S.; Ryazantsev, Yu. S.

TITLE: Combustion theory of condensed systems

SOURCE: AN SSSR. Doklady*, v. 157, no. 6, 1964, 1448-1450

TOPIC TAGS: combustion, combustion theory, explosive, solid fuel, propellant condensed phase

ABSTRACT: An analysis of the condensed phase process in the combustion of explosives was made on the assumption that the reaction is monomolecular and that heat flows from the gas phase to the condensed phase. The equations describing the condensed phase process were reduced to the following form:

$$\frac{dp}{dT} = \omega - \frac{\varphi(T)}{\omega} - \frac{\varphi(T)(T_* - T)}{p};$$

$$p = 0 \quad \text{at } T = T_0;$$

$$p = q_s \quad \text{at } T = T_s,$$

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ACCESSION NR: AP4044889

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where $p = \lambda\, dt/dx$ (λ is thermal conductivity), $\phi(T) = c\lambda\phi(T)$ ($\phi(T)$ is the dependence of the chemical reaction rate on temperature), $\omega = mc$ (m is mass burning rate, c is heat capacity), and q_s is heat flux through the hot surface. The equation was solved for the cases $T_* > T_s$, $T_\varepsilon < T_* \leq T_s$, and $T_* \leq T_\varepsilon$, where $T_* = T_o + ha_o/c$ (h is heat of reaction and a_o is concentration), T_ε is a parameter introduced previously by Zel'dovich, and T_s is temperature of the hot surface. It was shown that when $q_s < q_{cr}$ no solution exists, but that when $q_s > q_{cr}$, there is a unique solution. The function ω is shown for different cases in a graph of p vs. T. Orig. art. has: 1 figure and 12 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBMITTED: 17Apr64 ENCL: 00

SUB CODE: WA, FP NO REF SOV: 010 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

L 8443-65 EEO-2/ESS-2/EPA/EWT(1)/EPA(s)-2/EWT(m)/EPF(c)/EWA(d)/EPR/EWP(j)/H/
FCS(f)/EWA(b)/EWA/EED-2/FCS(k) Pc-4/Pr-4/Ps-4/Pt-10/Paa-4 RPL/AEDC(a)/SSD(a)/
AFWL/BSD/SSD/AFETR/AFTC(p)/ASD(m)-3/RAEM(1)/ESD(gs)/AEDC(b) JWD/RWH/JW/WW/EM
ACCESSION NR: AP4043842 S/0020/64/157/005/1188/1191

AUTHOR: Novikov, S. S.; Ryazantsev, Yu. S.

TITLE: Analysis of mathematical models of combustion in the condensed phase

SOURCE: AN SSSR. Doklady*, v. 157, no. 5, 1964, 1188-1191

TOPIC TAGS: explosive, propellant, combustion, solid propellant, nitroglycerine

ABSTRACT: The combustion of condensed systems is characterized by the multistage conversion of the combustible in the combustion front. Therefore, the study of the individual stages and their interaction and determination of the controlling stage are of importance. It was previously shown that up to 70% of the heat required for heating the burning surface is liberated by chemical reactions in the condensed phase. In flameless combustion of nitroglycerine powder, combustion is sustained exclusively by heat liberated in the condensed phase. It was also previously found that with increasing pressure, the heat liber-

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L 8443-65
ACCESSION NR: AP4043842

ated in the condensed phase increases. In the present article the existence and uniqueness was proved of the solution of the equations describing the combustion process in the condensed phase. Ya. B. Zel'dovich's thermal theory of combustion in gases was generalized for the case of combustion in the condensed phase. Two models were considered, 1) the T_g -model, where T_g is fixed temperature analogous to the boiling point in the Zel'dovich-Belyayev model, and 2) the Q_k model, in which the condensed phase is gasified when a fixed amount of heat (Q_k) is evolved by chemical reaction in the condensed phase. The uniqueness of both solutions was proved. It was also shown that both models are not mutually exclusive and can be used simultaneously. For this case the possibility of a "subsurface" combustion regime as a function of pressure is discussed. Orig. art. has: 2 graphs and 9 formulas.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR)

SUBMITTED: 02Mar64 ATD PRESS: 3098 ENCL: 00
SUB CODE: FP NO REF SOV: 009 OTHER: 000
Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

NOVIKOV, S.S. (Moskva); RYAZANTSEV, Yu.S. (Moskva)

Theory of stable burning of gunpowders. FMF no.1:57-61 Ja-F '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

L 57554-65 EPA/EPA(s)-2/EWT(m)/EPF(c)/EPR/EWA(c) Paa-4/Pr-4/Pt-7 WW/JWD

ACCESSION NR: AP5018193 UR/0207/65/000/003/0043/0048

AUTHOR: Novikov, S. S. (Moscow); Ryazantsev, Yu. S. (Moscow) 43 B

TITLE: The theory of the steady propagation velocity of an exothermic reaction front in the condensed phase

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1965, 43-48

TOPIC TAGS: solid propellant, combustion, combustion instability, burning velocity, condensed phase reaction

ABSTRACT: The exothermic reaction in the condensed phase may in some cases liberate up to 80% of the total heat release in the combustion of a solid propellant. However, even in cases when the heat release in the condensed phase is much smaller, this process is fully or partly responsible for the gasification and thus has a controlling effect on the overall combustion process. Formulas for the velocity of the reaction front propagating in the condensed phase are also of importance for analyzing non-steady state phenomena associated with combustion instability. In the present study the Zel'dovich-Frank-Kamenetskiy method for thermal flame propagation was applied, and formulas were derived for calculating the velocity of the reaction

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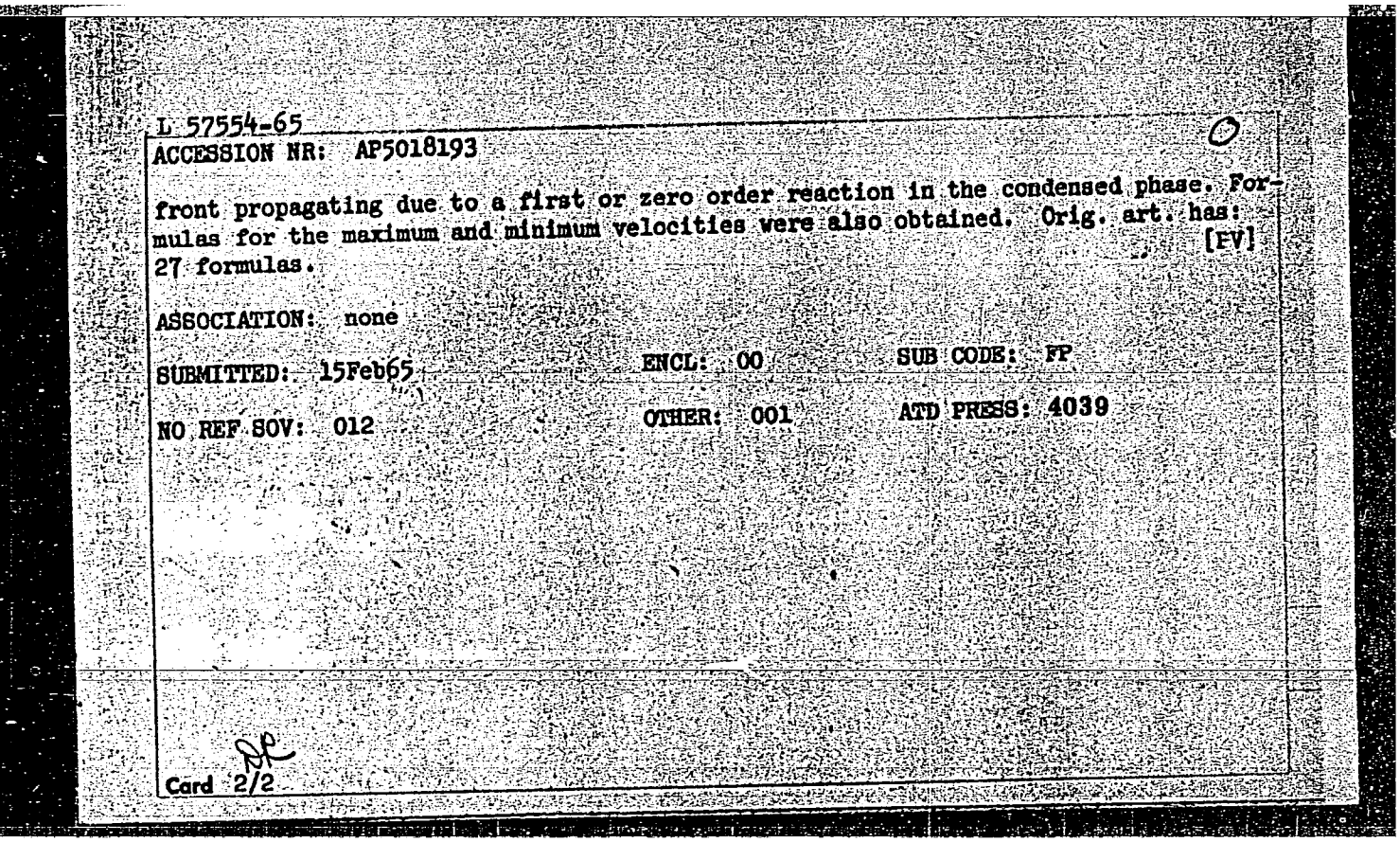

L 57554-65

ACCESSION NR: AP5018193

front propagating due to a first or zero order reaction in the condensed phase. Formulas for the maximum and minimum velocities were also obtained. Orig. art. has: 27 formulas. [EV]

ASSOCIATION: none

SUBMITTED: 15Feb65 ENCL: 00 SUB CODE: FP

NO REF SOV: 012 OTHER: 001 ATD PRESS: 4039

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

L 01801-66 EWP(f)/EWP(j)/T/EWA(c)/ETC(m)/EPA/EWA(c)/EPF(c) RPL BW/WS
JW/WE/RM
ACCESSION NR: AP5021908 UR/0207/65/000/004/0086/0088

AUTHOR: Novikov, S. S. (Moscow); Ryazantsev, Yu. S. (Moscow)

TITLE: The existence and uniqueness of the solution of a system of equations in the thermal theory of combustion

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1965, 86-88

TOPIC TAGS: combustion theory, gaseous combustion mixture, combustion stability

ABSTRACT: The flame propagation in a gaseous mixture in which a first order exothermic reaction is taking place is described by the following heat conduction and diffusion equations:

$$\frac{d}{dx}\left(\frac{k}{c}\frac{du}{dx}\right)-m\frac{du}{dx}+v\Phi=0, \qquad \frac{d}{dx}\left(\rho D\frac{dv}{dx}\right)-m\frac{dv}{dx}-v\Phi=0 \quad (1)$$

$$-\infty\leqslant x\leqslant+\infty, \quad u(-\infty)=u_-, \quad v(-\infty)=v_-, \quad u(\infty)=u_+ \quad (2)$$

where u is the temperature; v = ha/c, a is the concentration; h, the heat effect of the reaction; c = constant, the heat capacity of the gas; k = k(u), the thermal conductivity; $\rho = \rho(u)$, the gas density; D = D(u), the diffusion coefficient; m, the

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ACCESSION NR: AP5021908

mass velocity; and $\phi = \phi(u)$ reaction rate constant. $\phi = 0$ at $u_- \leq u \leq \varepsilon$ and $\phi > 0$ at $\varepsilon < u \leq u_+$. The existence and uniqueness of the solution of this system of equations had been previously shown for various cases. In the present work, the existence and uniqueness of the solution of this system of equations was shown for the case where the thermal conductivity, diffusion coefficient, and gas density values are functions of the temperature and satisfy the following conditions: $0 < \lambda(u) < 1$, where $\lambda = \rho cD/K = 1$. A series of mathematical transformations, after the introduction of new functions, yielded the following problem:

$$\frac{dp}{du} = m - \frac{f}{m} - \frac{(u_+ - u)f}{p}, \quad p(u_-) = p(u_+) = 0$$

where

$$p = \frac{k}{c}\frac{du}{dx}; \quad f = \frac{k\Phi}{c},$$

To prove the existence and uniqueness of the solution of the latter problem, it was compared with the following previously published problem, the solution of

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ACCESSION NR: AP5021908

which was already known:

$$\frac{dp_1}{du} = m - \frac{(u_+ - u)/(u)}{p_1}, \quad p_1(u_-) = p_1(u_+) = 0.$$

Orig. art. has: 18 formulas. [PS]

ASSOCIATION: none

SUBMITTED: 05Mar65 ENCL: 00 SUB CODE: FP

NO REF SOV: 004 OTHER: 000 ATD PRESS: 4085

Card 3/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZANTSYEV, A. V.

30421

K voprosu o postupleyenii vody uyeryez kornyevuyu sistyemu u dryevyesnykh porod v tyechyenive zholodnogo vryemyeni goda. Trudy In-ta fiziologii rastyeniy im. Timirzyeva, t. VI, vyp. 2, 1949, s. 214-24.
Bibliogr: 14 Nazv.

SO: LETOPIS' No. 34

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHENOV, V.V.

Heparin pharmacology; review of literature. Farm. i toks. 26 no.4:501-506 Jl-Ag'63 (MIRA 17:4)

1. Kafedra farmakologii (zav. - prof. A.N. Kudrin, nauchnyy rukovoditel' prof. M.M. Nikolayeva) farmatsevticheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHENOV, V.V.

Effect of heparin on experimental renal hypertension in white rats. Farm. i tok. 23 no. 5:417-421 S-O '60. (MIRA 13:12)

1. Kafedra farmakologii (zav. - prof. M.M. Nikolayeva) farmatsevticheskogo fakul'teta i Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(HEPARIN) (HYPERTENSION)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

SAMOYLOVA, Z.T.; RYAZHENOV, V.V.

Effect of heparin on the coronary circulation. Farm.i toks. 24 no.1:66-70 Ja-F '61. (MIRA 14:5)

1. Institut terapii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.L.Myasnikov) i kafedra farmakologii farmatsevticheskogo fakul'teta (zav. - prof. M.M.Nikolayeva) I Moskovskogo ordena Lenina meditsinskogo instituta.
(CORONARY VESSELS) (HEPARIN)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHENOV, V. V. Cand Med Sci -- "Effect of heparin upon the [redacted] blood-circulation system." Mos, 1961 (2nd Mos State Med Inst im N. I. Pirogov). (KL, 4-61, 211)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHENOVA, K.

The salt of the earth. Sov.profsoiuzy 18 no.12:22-23 Je '62.
(MIRA 15:6)

1. Predsedatel' komiteta profsoyuza superfosfatnogo tsekha Voskresenskogo khimicheskogo kombinata, im. V.V.Kuybysheva.
(Voskresensk--Fertilizer industry)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

POPOV, V.I., professor; RAZUMEYEV, A.N.; RYAZHKIN, G.A.

Pathogenesis and treatment of shock. Vest.khir. 86 no.2:25-32 '61. (MIRA 14:2)

1. Iz kliniki obshchey khirurgii (nach. - prof. V.I. Popov) i kafedry farmakologii i farmatsii (zav. - prof. N.V. Lazarev) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.
(SHOCK)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

POPOV, V.I., prof., general-mayor meditsinskoy sluzhby; RAZUMEYEV, A.N.; RYAZHKIN, G.A., podpolkovnik meditsinskoy sluzhby; SLASTIKHIN, M.A., mayor meditsinskoy sluzhby

Some problems in the pathogenesis of traumatic and anaphylactic shock. Voen.-med. zhur. no.7:25-27 Jl '61. (MIRA 15:1)
(ALLERGY) (SHOCK) (BRAIN)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G. A. and others

"The Effectiveness of Neuroplegics and Hypothermia in the Prophylaxis and Treatment of Traumatic Shock in Irradiated Animals."

Voyenno-Meditsinskiy Zhurnal, No. 12, December 1961, pp 62-73

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

L 33678-66 EWT(d)/EWT(l)/EWT(m)/EWP(k)/EWP(h)/T/EWP(v)/EWP(l) WW/DJ/BC

ACC NR: AP6013813 (A) SOURCE CODE: UR/0145/65/000/010/0112/0122

AUTHOR: Zakharov, Yu. Ye. (Candidate of technical sciences); Grigor'yev, P. V. (Engineer); Ryazhkov, Yu. G. (Aspirant); Yakimova, L. D. (Engineer)

ORG: MVTU im. N. E. Bauman

TITLE: Calculation of the switch-over time for valves in hydraulic control systems

SOURCE: IVUZ. Mashinostroyeniye, no. 10, 1965, 112-122

TOPIC TAGS: valve, hydraulic device, flow control, vehicle power transmission system

ABSTRACT: The aim of the present article is to furnish designers of control systems with a set of ready made formulas and graphs which make it possible to determine the switch-over time of typical elements of the hydraulic transmission box of locomotives. The article is based on a theoretical and experimental investigation of the hydraulic control systems of Type TGK-2 locomotives and Type UGP 750-1200 hydraulic transmissions. The mathematical development is based on the following assumptions: 1) the temperature and viscosity of the working fluid are

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ACC NR: AP6013813

constant; 2) the compressibility of the working fluid is neglected; and, 3) the force of dry friction is assumed to be constant over the model. The article gives detailed drawings of the operating mechanism of the hydraulic transmission boxes and a series of curves based on formulas in dimensionless variables. Orig. art. has: 32 formulas and 5 figures.

SUB CODE: 13/ SUBM DATE: 13Dec63.

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

BAYKOV, Dmitriy Ivanovich; ZOLOTOREVSKIY, Yuliy Semenovich; RUSSO, Vladimir Leonidovich; RYAZHSKAYA, Tamara Konstantinovna; BABICHEV, B.I., kand.tekhn.nauk, nauchnyy red.; KAZAROV, Yu.S., red.; LEVOCHKINA, L.I., tekhn.red.

[Weldable aluminum alloys; properties and use] Svarivaiushchiesia aliuminievye splavy; svoistva i primenenie. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1959. 234 p. (MIRA 12:10)

(Aluminum alloys)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G.A.

"The Role of the Cerebral Cortex in the Pathogenesis of Shock," by G. A. Ryazhkin, Candidate of Medical Sciences, Chair of General Surgery (head, Prof V. I. Popov), Military-Medical Order of Lenin Academy imeni S. M. Kirov, Vestnik Khirurgii imeni Grekova, Vol 77, No 11, Nov 56, pp 95-101

Forty-two experiments done on seven series of dogs which were subjected to blood loss equal to 2% of body weight, mild doses of bromide and caffeine, ganglioplegic and histaminic drugs, or experimental neurosis by stimulation of the sciatic nerve proved that the pathogenesis of traumatic shock is due chiefly to primary functional disorders of the central nervous system and especially the vegetative system. Since shock by sciatic nerve stimulation appeared in half the time as compared with loss of blood equal to 2% body weight, the author concludes that the functional weakness of the cerebral cortex predisposes an animal to the onset of shock more than blood loss equal to 2% of body weight.

Bromides and caffeine have little effect on the prevention or treatment of shock, but a mixture of ganglioplegic and antihistaminic drugs is most effective. (U)

54M.1374

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G.A.

Normal content indicators of peripheral blood and of bone marrow in dogs. Biul.eksp.biol.med. 41 no.5:15-17 May '56. (MLRA 9:8)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova. Predstavlena deystvitel'nym chlenom AMN SSSR D.N.Nasonovym.

(BLOOD
content index in dogs of peripheral blood & bone marrow)
(BONE MARROW, blood supply
content index in dogs)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G.A.

USSR/General Problems of Pathology - Shock. T-3

Abs Jour : Ref Zhur - Biol., No 1, 1958, 3015

Author : Ryazhkin, G.A.
Inst : -
Title : On the Role of the Cerabral Cortex in the Pathogenesis of Shock.

Orig Pub : Vestn. khirurgii, 1956, 77, No 11, 95-111

Abstract : Neurosis was induced in dogs by a combined food and defense reflex. Shock was induced by the irritation of the sciatic nerve with an induction current (IC; 6 v, 2 min). In the control dogs the state of shock was reached on an average at the 55th minute of the irritation. In 4 of 8 control dogs a state of shock was reached on an average at the 38th minute after irritation with IC, and after a 2% loss of blood. In 6 of 8 dogs with neurosis a state of shock was reached at the 20th minute after the irritation. An attempt of shock prophylaxis by the internal administration

Card 1/2

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G.A., kandidat meditsinskikh nauk

The role of the cerebral cortex in the pathogenesis of shock [with summary in English, p.159] Vest.khir.77 no.11:95-101 N '56. (MLRA 10:1)

1. Iz kafedry obshchey khirurgii (nach. - prof. V.I.Popov) Voyenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova.

(SHOCK, etiol. and pathogen.
traum., pathogen of traum. shock, role of cerebral cortex)
(CEREBRAL CORTEX, physiol.
role in pathogen. of traum. shock)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G.A., kandidat meditsinskikh nauk

Peripheral blood and bone marrow changes in closed skull and brain injuries [with summary in English. p.157] Vest.khir. 77 no.3:53-59 Mr '56. (MLRA 9:7)

1. Iz kafedry obshchey khirurgii (nach. - prof. V.I.Popov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(CRANIUM, wounds and injuries
exper., causing peripheral blood & bone marrow changes)
(BRAIN, wounds and injuries
same)
(WOUNDS AND INJURIES, exper.
brain & cranium, causing peripheral blood & bone marrow changes)
(BONE MARROW, physiol.
eff. of exper. brain & cranium inj.)
(BLOOD
test, in exper. brain & cranium inj.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G.A., kandidat meditsinskikh nauk

Peripheral blood and bone marrow changes in closed skull and brain injuries [with summary in English. p.157] Vest.khir. 77 no.3:53-59 Mr '56. (MLRA 9:7)

1. Iz kafedry obshchey khirurgii (nach. - prof. V.I.Popov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(CRANIUM, wounds and injuries
exper., causing peripheral blood & bone marrow changes)
(BRAIN, wounds and injuries
same)
(WOUNDS AND INJURIES, exper.
brain & cranium, causing peripheral blood & bone marrow changes)
(BONE MARROW, physiol.
eff. of exper. brain & cranium inj.)
(BLOOD
test, in exper. brain & cranium inj.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

27.1220

25250 S/177/60/000/007/005/011
D264/D304

AUTHOR: Popov, V.I., Professor, Major General, Medical Corps, Razumeyev, A.N. and Ryazhkin, G.A.

TITLE: Changes in the functional state of certain sections of the cerebrum with shock in intact and irradiated animals

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 7, 1960, 32-35

TEXT: To determine the focus of inhibition and to check the effects of irradiation on sensitivity to pain, an electroencephalographic study was made of the functional state of the cerebral cortex and certain subcortical formations in intact and irradiated rabbits under shock. The test rabbits were exposed for 25 minutes to a radiation source with an intensity of 20 r/min, i.e. a total dose of 500 r. An analysis of the results is given, broken down into the latent period, height and recuperative period of radiation sickness. It was found that in both the intact and the irradiated animals the focus of inhibition in shock develops, not in the cor-

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

tex, but in the underlying formations (vegetative nuclei of the hypothalamus, reticular formation of the cerebral corpus). Shock development in the irradiated animals had some peculiar features. In the latent period the animals were more resistant to pain stimuli combined with loss of blood. Response changes on the electroencephalograms of the cortex and subcortical formations are less marked than in the intact animals. At the height of sickness, however, shock develops more rapidly and the response changes are more marked than in the intact animals. During recuperation the state of shock is the same in both irradiated and healthy animals. P.K. Anokhin, A.I. Reshetov and A.V. Yakubenko are mentioned as having done recent research on this subject.

SUBMITTED: March, 1960

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

RYAZHKIN, G.A.

Ganglionic blocking agents and antihistaminics in the prevention of shock; experimental data. Vest. khir. 85 no. 7:98-101 Je '60. (MIRA 14:1)

(SHOCK) (NEUROSES) (AUTONOMIC DRUGS) (ANTIHISTAMINES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

D'YACHENKO, P.K.; KATAYEVA, G.A.; POMOSOV, D.V.; RYAZHKIN, G.A.; STENGANTSEV, V.I.; FOY, L.K.; CHUDAKOV, V.G.; YANCHUR, N.M.

Effectiveness of neuroplegic substances and hypothermia in the prevention and treatment of traumatic shock in irradiated animals. (MIRA 15:1)
Voen.-med. zhur. no.7:86 Jl '61.
(AUTONOMIC DRUGS) (HYPOTHERMIA)
(SHOCK) (RADIATION SICKNESS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

ZAKHAROV, Yu. Ye., kand. tekhn. nauk, dotsent; GRIGOR'YEV, P.V., inzh.; RYAZHKOV, Yu.G., aspirant; YAKIMOVA, L.D., inzh.

Calculating the time of valve shifts in control systems of hydraulic transmissions. Izv. vys. ucheb. zav.; mashinostr. no. 10:112-122 '65 (MIRA 19:1)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche im. Baumana. Submitted December 13, 1963.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

M. A.

T. D. ... Phenomena

...he Cavitation-Resistance of [Copper] Alloys. T. K. Krazhelas ... *Tekhnologiya*, 1939, (12), 50-56).—[In Russian.] The cavita... ...ces of stainless steels, constructional steels, and copper-bas... ...determined by placing specimens in the end of a nickel ... ...of by magnetostriction and measuring the loss in ... The most resistant alloy was Stellite, of copper ba... ...with (a) zinc 32, iron 2·25, nickel 2·5, aluminium 3·... ...1·7, manganese 2·4, iron 2·5, aluminium 3·1 ... ...iron 1, nickel 12, aluminium 4·1%; (d) aluminium bronze ... ...aluminium 9, iron 1%. (a) and (b) were as resistant as any of the ... No relation was found between corrosion and cavitation re...

N. R. V.

1543

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001446320017-3

FURSA, L.A.,; RYAZHNOV, Yu.G.

Automatically controlled hydraulic drive of TGK diesel locomotives. Elekt.i tepl. tiaga 5 no.10:27-29 O '61. (MIRA 14:10)

1. Vedushchiye inzhenery konstruktorskogo byuro Kaluzhskogo mashinostroitel'nogo zavoda.
(Diesel locomotives--Hydraulic drive)
(Automatic control)

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32

INVENTOR: Kulik, Yu. G.; Ryazhkin, Yu. N.

ORG: none

TITLE: A device for forming circular welds in welding cylindrical tanks. Class 21, No. 179862

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 54-55

TOPIC TAGS: welding, cylindrical tank, open tank, closed tank, tank welding, circular weld, weld forming device

ABSTRACT: This Author Certificate introduces a device for forming circular welds in welding cylindrical tanks. The device ensures formation of the inner side of the weld in both open and closed tanks. The device (see Fig. 1) consists of a detachable tripod with adjustable arms which bear against the inside walls of the tank. An oscillatory system consisting of a water-cooled slider and a reducing gear with two electric motors is mounted at the tripod center. A pendulum-type sensor electrically

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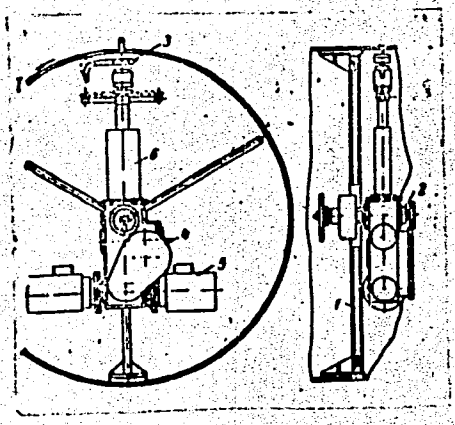

Fig. 1. Device for forming circular welds

1 - Tripod; 2 - axis; 3 - slider;
4 - reducer; 5 - electric motors;
6 - pendulum sensor.

connected with the motors automatically switches on the corresponding motor in order to counteract the rotation of the slider together with the tank. Orig. art. has: 1 figure. [MS]

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